	Application No.	Applicant(s)
M-4:	10/804,277	MUSICK ET AL.
Notice of Allowability	Examiner	Art Unit
	Timothy C. Vanoy	1754
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included a will be mailed in due course. THIS
1. This communication is responsive to the amendment and request for continued examination filed on Nov. 6, 2006.		
2. The allowed claim(s) is/are <u>1-3 and 5-12</u> .		
3. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s)		
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Da 	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Nov. 6, 2006	Paper No./Mail Da 08), 7. ☐ Examiner's Amend	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9. ☐ Other	
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		Timothy C. Vanoy Primary Examiner Art Unit 1754

Application/Control Number: 10/804,277

Art Unit: 1754

CONTINUED EXAMINATION UNDER 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on Nov. 6, 2006 has been entered.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

While U. S. Patent 5,201,949 discloses a substantially similar process for making titanium dioxide particles by the oxidation of titanium tetrachloride in what appears to be the same flame reactor (please see col. 7 lines 1-7) at a temperature that is at least 800 °C and a pressure that is at least about 10 psi (please see col. 2 lines 17-21), in the presence of: (i) water vapor in an amount ranging from 50 to 100,000 ppm based on the weight of titanium dioxide under production (please see col. 2 lines 22-25); (ii) a spacing gas (i. e. the applicants' diluent gas) in an amount that ranges from 1 to 100 mole percent based on the titanium tetrachloride and oxygen (please see col. 5 lines 31-38), and (iii) a nucleant consisting essentially of a cesium substance in an amount ranging from 8 to 2,000 ppm based on the weight of titanium dioxide under production, the applicants' independent claim limits the surface area of the titanium dioxide particles to range from 30 to 300 m²/g whereas Table 1 set forth in col. 7 in U. S. Patent 5,201,949

Application/Control Number: 10/804,277

Art Unit: 1754

reports surface areas that range from 6.5 to 6.9 m²/g. Additionally, the applicants' independent claim is limited to using a diluent gas in an amount *greater than* 100 mole percent based on the titanium tetrachloride and oxygen containing gas, whereas col. 5 lns. 31-38 in U. S. Patent 5,201,949 sets forth the use of a spacing gas in an amount that ranges from 1 to 100 mole percent based on the titanium tetrachloride and the oxygen. All of the claim limitations must be taught or suggested by the prior art to establish a *prima facie* case of obviousness of a claimed invention: please see the discussion of the *In re Royka* 490 F.2d 981, 180 USPQ 580 (CCPA 1974) court decision set forth in section 2143.03 in the MPEP 8th Ed., Rev. 3, Aug. 2005.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy C. Vanoy whose telephone number is 571-272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman,, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 4

Application/Control Number: 10/804,277

Art Unit: 1754

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timothy C Vanoy Timothy C Vanoy Primary Examiner Art Unit 1754